

Title (en)

CIRCULAR ECONOMY METHODS OF PREPARING UNSATURATED COMPOUNDS

Title (de)

KREISLAUFWIRTSCHAFTSVERFAHREN ZUR HERSTELLUNG VON UNGESÄTTIGTEN VERBINDUNGEN

Title (fr)

PROCÉDÉS D'ÉCONOMIE CIRCULAIRE DE PRÉPARATION DE COMPOSÉS INSATURÉS

Publication

EP 3257831 B1 20191127 (EN)

Application

EP 17176464 A 20170616

Priority

US 201662351062 P 20160616

Abstract (en)

[origin: EP3257831A2] Methods of preparing unsaturated compounds or analogs through dehydrogenation of corresponding saturated compounds and/or hydrogenation of aromatic compounds are disclosed.

IPC 8 full level

C07C 5/333 (2006.01); **C07B 35/04** (2006.01); **C07C 5/10** (2006.01); **C07C 5/367** (2006.01); **C07C 5/48** (2006.01); **C07C 13/465** (2006.01)

CPC (source: CN EP US)

C07B 35/04 (2013.01 - CN EP US); **C07C 1/24** (2013.01 - CN); **C07C 5/10** (2013.01 - EP US); **C07C 5/11** (2013.01 - CN); **C07C 5/333** (2013.01 - CN EP US); **C07C 5/3332** (2013.01 - US); **C07C 5/3337** (2013.01 - CN EP US); **C07C 5/367** (2013.01 - EP US); **C07C 5/48** (2013.01 - EP US); **C07C 45/28** (2013.01 - CN); **C07C 45/65** (2013.01 - EP US); **C07C 45/66** (2013.01 - US); **C07C 67/317** (2013.01 - EP US); **C07D 307/79** (2013.01 - EP US); **C07C 2521/02** (2013.01 - EP); **C07C 2521/08** (2013.01 - EP US); **C07C 2521/18** (2013.01 - EP US); **C07C 2523/22** (2013.01 - EP US); **C07C 2523/28** (2013.01 - EP US); **C07C 2523/44** (2013.01 - EP US); **C07C 2523/50** (2013.01 - EP US); **C07C 2523/62** (2013.01 - EP US); **C07C 2523/66** (2013.01 - EP US); **C07C 2523/89** (2013.01 - EP US); **C07C 2527/198** (2013.01 - US); **C07C 2531/24** (2013.01 - EP US); **C07C 2601/10** (2017.04 - CN); **C07C 2601/18** (2017.04 - EP US); **C07C 2602/08** (2017.04 - EP US); **C07C 2602/24** (2017.04 - CN EP US); **C07C 2602/28** (2017.04 - CN EP US)

C-Set (source: CN EP US)

CN

1. **C07C 5/3337 + C07C 13/465**
2. **C07C 5/11 + C07C 13/465**
3. **C07C 45/28 + C07C 49/633**
4. **C07C 5/333 + C07C 13/48**
5. **C07C 1/24 + C07C 13/02**
6. **C07C 5/333 + C07C 13/20**

EP US

1. **C07C 5/367 + C07C 13/465**
2. **C07C 5/3337 + C07C 13/465**
3. **C07C 5/333 + C07C 13/48**
4. **C07C 5/48 + C07C 13/02**
5. **C07C 5/10 + C07C 13/465**
6. **C07C 67/317 + C07C 69/738**
7. **C07C 45/65 + C07C 49/633**
8. **C07C 45/65 + C07C 49/597**
9. **C07C 45/65 + C07C 49/643**

Cited by

CN115385770A; WO2024083551A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3257831 A2 20171220; EP 3257831 A3 20180321; EP 3257831 B1 20191127; CN 107522583 A 20171229; CN 107522583 B 20201106; CN 112250532 A 20210122; EP 3628653 A1 20200401; ES 2764575 T3 20200603; US 10435345 B2 20191008; US 11753360 B2 20230912; US 2017362155 A1 20171221; US 2019389791 A1 20191226

DOCDB simple family (application)

EP 17176464 A 20170616; CN 201710461751 A 20170616; CN 202011128508 A 20170616; EP 19209991 A 20170616; ES 17176464 T 20170616; US 201715624749 A 20170616; US 201916556963 A 20190830